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HAVIS
Productivity in motion

Idle Reduction Technology for: Police - Highway Service - Construction

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Recent Idle Reduction Campaigns

- Over the Road Trucks

- Auxilliary Power Units

- Small Gas driven power units provide energy to run cab and berth electronics, heat and air conditioning.

- Automatic Start/Stop Technologies

- Systems that take into consideration ambient and cab temperatures, and truck battery voltage levels before automatically starting and stopping the engine.



Recent Idle Reduction Campaigns



- Buses and Utility Vehicles
 - Automatic Engine Stop Technologies
 - Typically will use a timer to automatically turn the vehicles engine off in the event it has idled past a preset timing threshold.
 - Seat position Sensors will automatically turn the vehicles engine off in the event the driver gets up from the drivers seat.

IdleRight™ – Idle Reduction System

A typical Police Vehicle will spend **thousands** of hours during its life cycle idling to operate critical safety lighting.



A typical State Highway truck will spend 600 hours per year idling to provide safety lighting.

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IDLERIGHT™
IDLE REDUCTION SYSTEMS

IdleRight™ – Idle Reduction System

The Idleright is a purpose-built Idle Reduction system designed to allow emergency vehicles to be parked with warning lights flashing continuously while minimizing engine idle time.

When IdleRight detects a low voltage condition, it will automatically start and idle the vehicles engine to recharge the vehicle battery. When charge time is sufficient, Idleright turns off the engine, to allow the warning system to function once again, from vehicle battery power.



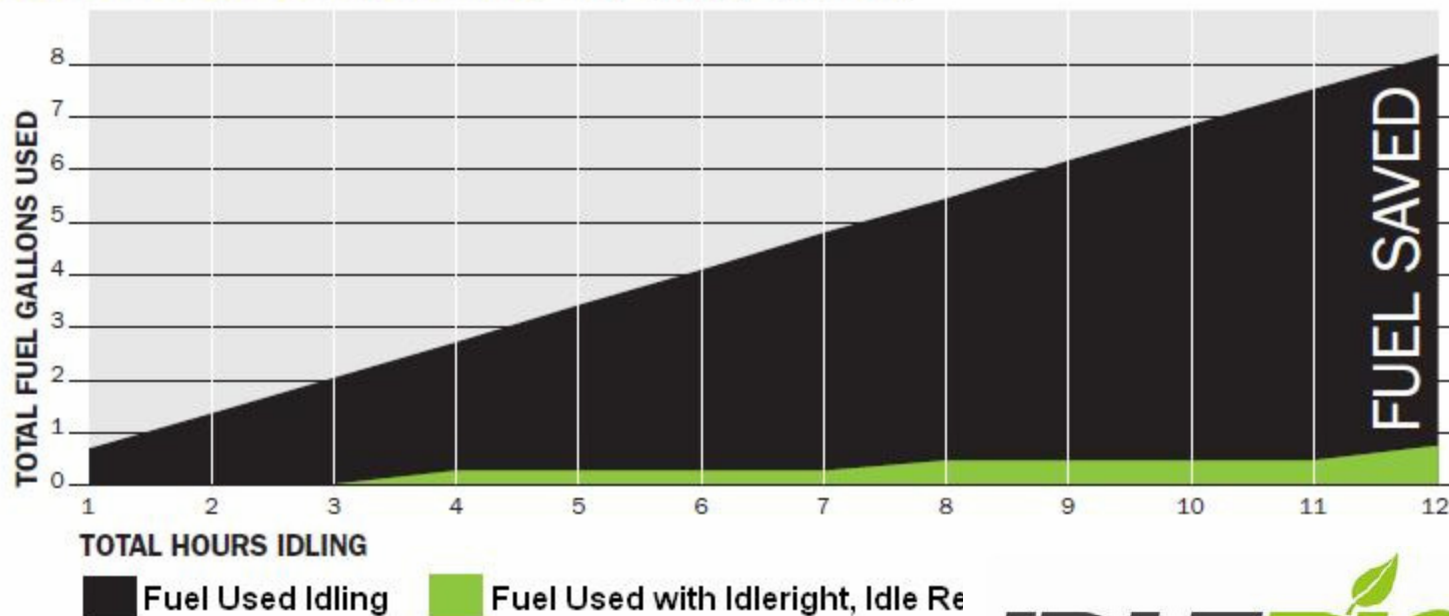
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IDLERIGHT™
IDLE REDUCTION SYSTEMS

IdleRight™ – Idle Reduction System

- Reduce carbon emissions output
- Reduce wear and tear
- Immediate, Substantial fuel Savings

Fuel Usage Comparison: Ford Crown Victoria



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IDLERIGHT™
IDLE REDUCTION SYSTEMS

IdleRight™ – Highway Dept. Case Study



1 Year Fuel Saved = Approximately 550 gallons

Cost of Fuel = \$2.38 per Gallon

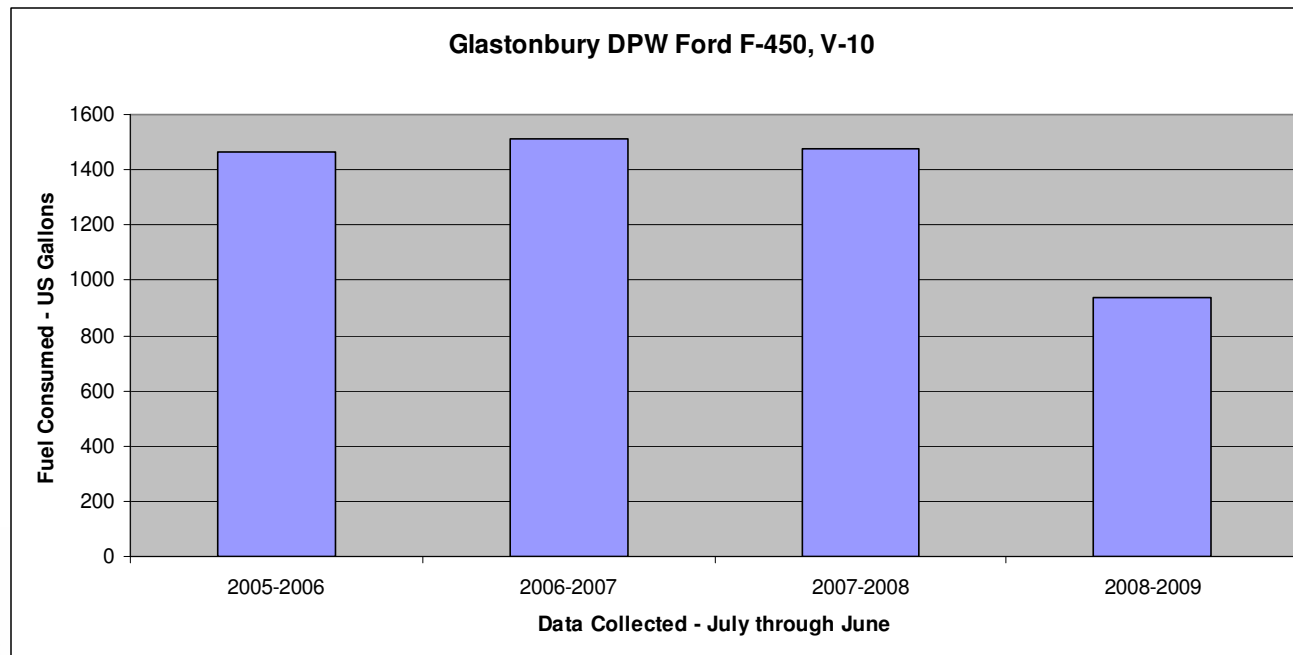
1 Year Fuel Cost Saved = \$1,309.00

Idleright System Cost = \$495.00

Installation = Approximately \$100.00

Total Cost Savings over 5 year period = \$5,950.00

Total Fuel Saved over 5 year period = 2,750 Gallons



IdleRight™ – Frequently Asked Questions



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IdleRight™ - Idle Reduction System

- What is the Idleright?
 - Idle Reduction system
 - designed to allow vehicles to be parked with warning lights flashing continuously while minimizing engine idle time

IdleRight™ - Idle Reduction System

- Why would I want to use an Idleright?
 - If you have a need to park vehicles for an extended period
 - The Idleright will save significant fuel dollars
 - extend the life of the vehicle's engine by cutting idle time by up to 80% or more.
 - increases safety by not requiring a key to be in the ignition

IdleRight™ - Idle Reduction System

- Supported Applications (Vehicles)?
 - The Idleright is compatible with virtually any vehicle with an automatic transmission and electronic fuel injection
- Unsupported applications?

IdleRight™ - Idle Reduction System

- What are interface kits? How do I know if I need one?
 - An interface kit acts as an “interpreter” to allow the Idleright unit to “talk” to the vehicle.

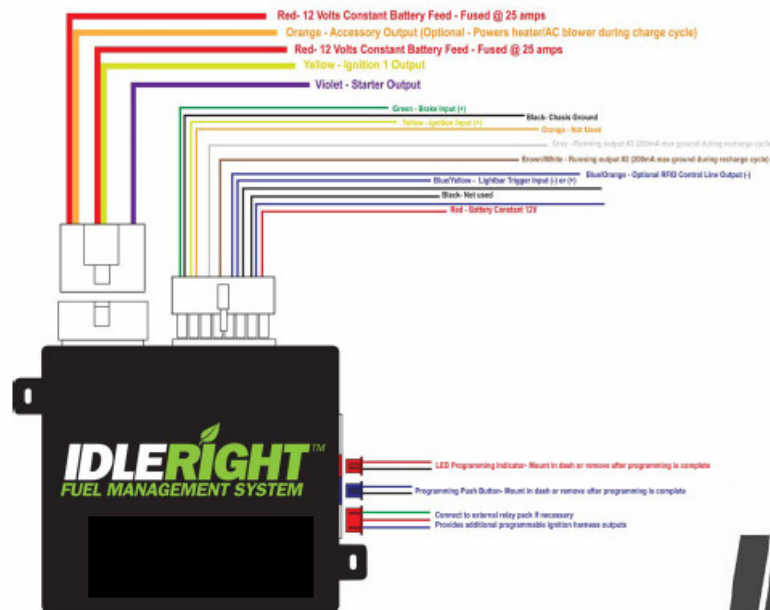


IdleRight™ - Idle Reduction System

- What knowledge/experience is needed to install an Idleright?
 - We recommend that installers have familiarity with installing car alarms and/or remote starting systems

Wiring Diagram:

The following diagram illustrates how each wire harness connects to the Idleright unit.



IdleRight™ - Idle Reduction System

- Can I just use an ON/OFF switch instead of connecting the Idleright to an emergency light switch?
 - Can be connected to any suitable trigger device, including an ON/OFF switch.



IdleRight™ - Idle Reduction System

- Can the Idleright be used with diesel engines?
 - The Idleright is compatible with nearly all vehicles with automatic transmissions and electronic fuel injection, including diesel vehicles.



IdleRight™ - Idle Reduction System

- What real cost savings can I reasonably expect when I install an Idleright?
 - Fuel savings can vary from 40% to over 90% depending upon vehicle and application



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IdleRight™ - Idle Reduction System

- What happens if someone tries to steal a vehicle with an Idleright?



IdleRight™ - Idle Reduction System

- What specific information does the technical support hotline provide?



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IdleRight™ - Idle Reduction System

■ IdleRight® in the News

FUEL MISERS

The Town of Glastonbury

INTRODUCTION

The fuel crisis of 2007 and 2008 left this question on many fleet managers' minds: "How can we cut our fuel usage?" Many a forum and committee has been formed to share ideas, thoughts and data on this subject. Police fleets around the nation are setting idle time restrictions in an attempt to curb fuel costs.

Many police agencies idle their vehicles while parked, which allows the vehicle to maintain enough power to operate the critical warning lights that protect lives. They have to. Without the vehicles idling, warning lights operate solely on battery power. Over time, the warning lights will run down the battery, causing not only the lights to go off, but also requiring a "jump start" from a second vehicle.

FUEL CONSUMPTION STUDY LEADS TO DRAMATIC FUEL SAVINGS

Now, imagine for a moment that you could attach a device to a police car that would enable it to retain its ability to operate these warning lights while the vehicle is turned off and never have to worry about the battery going dead...

Havis Shields Equipment Corporation has developed an ingenious new technology that provides just this ability. Enter the patent pending IdleRight™ Fuel Management System. This device, which could fit in your coat pocket, attaches to the vehicle's ignition, battery and warning light systems. When the vehicle arrives on the scene, the officer simply turns the car off and leaves all the critical warning lights activated. The officer can walk away for hours – or even days – without worrying about the power being consumed by the warning lights.

"The Glastonbury Police Department was so impressed with the results of the study, that we will be installing this fuel-saving device in all of our marked police vehicles."

— Chief Thomas Sweeney

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Glastonbury Green
Bulletin No. 4
Police Issue
April 17, 2009

ReminderNews

NEWS SPECIAL COMMUNITY HEALTH ENTERTAINMENT HOMES JOBS

Glastonbury — 04/14/2009

Police test gas-saving device to be implemented in all cruisers

BY STEVE SMITH Staff Writer

Last year, amidst the gasoline price crisis, the Glastonbury Police Department partnered with a local inventor to test a system that would allow vehicles to run emergency lights at construction sites and traffic stops, without depleting the battery or wasting fuel.

The IdleRight Fuel Management System, now being marketed by the Havis-Shields Equipment Corporation, was tested and refined by the GPD.

Officer Robin Timmer said the initial prototype was tested in one vehicle. The first assembly line version is now in two of the department's vehicles. "It's an absolutely great idea," he said, "for so many reasons."

The device is attached to the vehicle's ignition, battery and warning lights. When the vehicle arrives on the scene, the officer simply turns the car off and leaves all the critical warning lights activated.

Without any input from the officer, the IdleRight system monitors the vehicle's battery condition. When low-voltage is detected, it activates the ignition system, starts the car and idles the engine for a short period of time.

The battery is then recharged, sustaining the lights. When the IdleRight system determines that the battery level is satisfactory (approximately 20 minutes for the typical V-8 police cruiser), it simply turns off the ignition, and the process starts over again.

"We liked that, depending on the age of the vehicle's electrical system and battery," Timmer said, "we were able to fine-tune the system." He added that older vehicles may need a higher battery threshold.

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IdleRight™ - Idle Reduction System

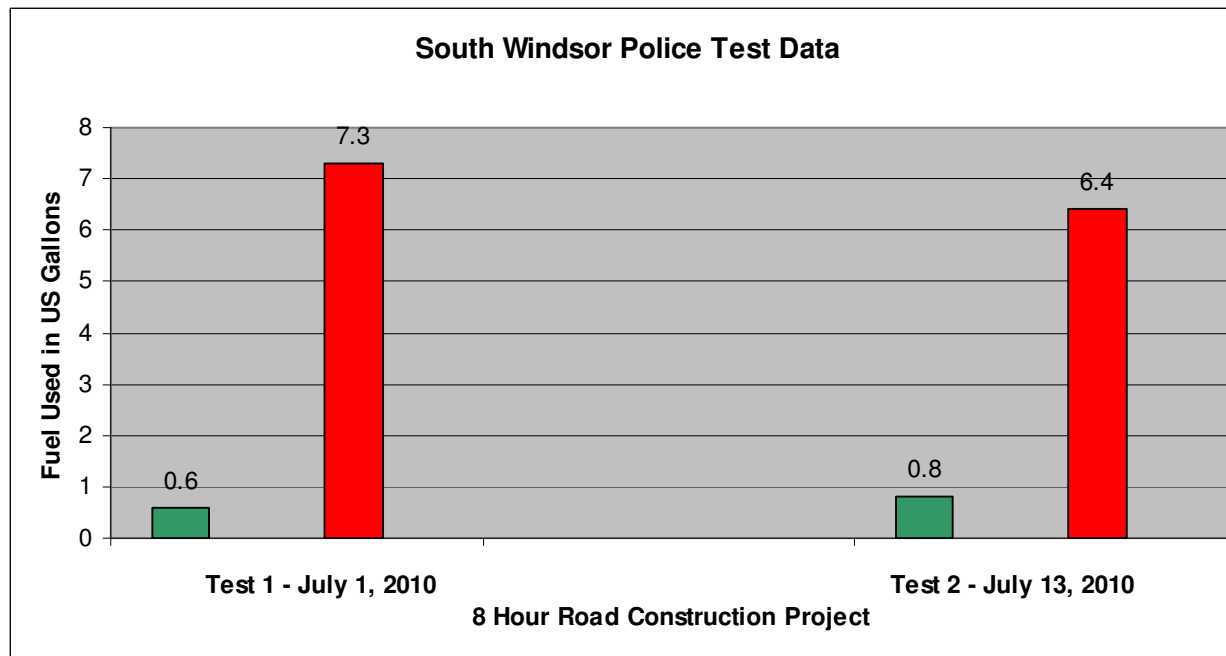
- IdleRight® in the News

WFSB Channel 3 in Hartford, CT runs news story on the success of the Idleright System within the South Windsor Police Department.



IdleRight™ - Police Case Study

- Testing recently conducted by the South Windsor, CT Police



IdleRight™ - Idle Reduction System

- Idleright Receives the 2009 Innovation of the Year Award! Presented at the 2009 International Association of Chiefs of Police, in Denver Co. by the Cygnus Law Enforcement Group.



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IdleRight™ - Idle Reduction System

- Information on website
 - www.havis.com
 - Installation Instructions
 - Owners Manual
 - Technical Service Bulletin
 - New Product Release
 - Vehicle Application Guide
 - Frequently Asked Questions
 - Press Releases
 - Testimonials



The screenshot shows the Havis website's product page for the IdleRight IR-1001. The page has a navigation bar with links for PRODUCTS, MARKETS, SUPPORT, PARTNERS, and HAVIS NEWS. The main content area is titled 'Havis Products' and lists various product categories. The featured product is the 'IdleRight IR-1001', a black rectangular control module with a white connector. The page includes a 'Full Product Description' section with the part number 'IR-1001', a list of links for additional information (Installation Instructions, Owner's Manual, etc.), and a 'Features & Benefits' section. The MSRP is listed as \$495.00. The quantity is set to 1, and there are buttons for 'View, Edit, Print or Submit Quote' and 'Email to a Friend'.

Havis Products

- New Products
- Search by Vehicle Type/Make
- Mounting Solutions
- Computing Solutions
- Power Management Solutions
 - Auto Shut-Off Timers
 - Idle Management
 - Laptop Power Supplies
- Transport Solutions
- Lighting Solutions
- Replacement Parts
- Obsolete Products

Part #: IR-1001

Full Product Description:
IdleRight, Universal, Control module

MSRP: \$495.00

Abbreviated Product Description:
IDLRT, UNV, CNTRLMDL,

Additional Info:

- Installation Instructions (PDF)
- Owner's Manual (PDF)
- Written Product Specs (PDF)
- Technical Service Bulletin (PDF)
- Wiring Installation Diagram (JPG)
- Wiring Installation Diagram (PDF)
- New Product Release (PDF)
- New Product Release (PDF)
- Frequently Asked Questions (PDF)
- IdleRight Price Guide (PDF)
- Press Release/Testimonial (PDF)

Quantity: 1

> View, Edit, Print or Submit Quote

> Email to a Friend

Features & Benefits:

- Vehicle idle fuel management system control module
- Immediate, substantial fuel savings
- Decreased engine wear
- Decreased harmful exhaust emissions
- Exceeds anti-idling regulations in most states
- Works with gas and diesel engines, automatic transmissions only
- Some vehicles also require a vehicle specific interface kit to allow the control module to communicate with the vehicle (IR-8000 Series) see new product release for vehicle application chart
- 1-YEAR warranty against manufacturing defects



Thank you for attending

